Why does Kruskal's algorithm work?

We summarize the proof by contradiction:

- We let T^* be a MST different from T
- ► We took any edge e from T* that wasn't in T, and we added it to T
- \blacktriangleright We argued this created a cycle γ and that e had to be the heaviest edge in γ
- We argued there was an edge f in γ that isn't in T* and we could add it to T* − e and get a spanning tree that had smaller weight

Hence we obtained a contradiction