```
lang_closure_wf  THM

⊢  ∀Alph:Type, L:LangOver(Alph). (L↑∞) ∈ LangOver(Alph)  by UnivCD
|
1. Alph : Type
2. L : LangOver(Alph)
⊢  (L↑∞) ∈ LangOver(Alph)  by Unfold ‘lang_closure‘ 0
|
⊢  (λl.∃n:ℕ. (L↑n)(l)) ∈ LangOver(Alph)  by Unfold ‘languages‘ 0
|
⊢  (λl.∃n:ℕ. (L↑n)(l)) ∈ Alph*→Prop  by Auto
|
3. Alph*
4. n : ℕ
⊢  (L↑n) ∈ Alph*→Prop  by Fold ‘languages‘ 0
|
⊢  (L↑n) ∈ LangOver(Alph)  by Auto
END
```