```
sfa_doc_fun_ext  THM

⊢  ∀A,B:Type, f,g:(A→B). f = g ⟺ (∀x:A. f(x) = g(x))  by UnivCD
|
1. A : Type
2. B : Type
3. f : A→B
4. g : A→B
⊢  f = g ⟺ (∀x:A. f(x) = g(x))  by Auto
|
|\
| 5. f = g
| 6. x : A
| ⊢  f(x) = g(x)  by Subst: f = g ∈ A→B
|
.\
. 5. ∀x:A. f(x) = g(x)
. ⊢  f = g  by FunExtensionality
. |
. 6. x : A
. ⊢  f(x) = g(x)  by BackThru: Hyp:5
END
```